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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,734	12/27/2000	Sanjay S. Natarajan	42390P10050	7194
8791	7590 10/02/2002			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			EXAMINER	
	IRE BOULEVARD, SEVENTH FLOOR ES, CA 90025		GURLEY, LYNNE ANN	
			ART UNIT	PAPER NUMBER
			2812	
			DATE MAILED: 10/02/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. 09/750,734

Applicant(s)

Natarajan et al.

Examiner Lypne Gurley

Art Unit 2812



		Lynne Gurley	2812			
	The MAILING DATE of this communication appears	on the cover sheet with the corres	pondence address			
Period for Reply						
THE N - Extens mailing - If the p - If NO p - Failure - Any re	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.136 (a). In a date of this communication. Deriod for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the set of the	no event, however, may a reply be timely filed he statutory minimum of thirty (30) days will be and will expire SIX (6) MONTHS from the mailin he application to become ABANDONED (35 U.S	after SIX (6) MONTHS from the considered timely. In date of this communication. In S.C. § 133).			
_	patent term adjustment. See 37 CFR 1.704(b).		!			
Status 1) 💢	Responsive to communication(s) filed on Jul 9, 200	02	· · · · · · · · · · · · · · · · · · ·			
2a) 💢	This action is FINAL . 2b}□ This act	tion is non-final.				
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposition of Claims						
4) 💢	Claim(s) <u>1-23</u>	is/are	pending in the application.			
4	a) Of the above, claim(s) 14-17	is/ar	e withdrawn from consideration.			
5) 🗆	Claim(s)		is/are allowed.			
6) 💢	Claim(s) 1-13 and 18-23		is/are rejected.			
7) 🗌	Claim(s)		is/are objected to.			
8) 🗌	Claims	are subject to restric	tion and/or election requirement.			
Application Papers						
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed onis/are	$:$ a) \square accepted or b) \square objecte	d to by the Examiner.			
11)□	Applicant may not request that any objection to the definition to the definition of the proposed drawing correction filed on	is: a)□ approved				
121	The oath or declaration is objected to by the Exam					
	under 35 U.S.C. §§ 119 and 120	illor.				
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some* c) None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) 🗌 No	otice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper	_ -			
	otice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)				
3) 🗌 inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:				

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DETAILED ACTION

Specification

1. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The rejection of claims 1-5 and 7-11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Jang et al. (US 5,840,624, dated 11/24/1998) has been maintained for the reasons of record.
- a. Jang shows the method as claimed in figures 5-8 and corresponding text, with dielectric layers 8, 19 and 23 and etch stop layer 20.

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Claim Rejections - 35 USC § 103

- b. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- c. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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d. The rejection of claims 6 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jang et al. (US 5,840,624, dated 11/24/98) in view of Andideh et al. (US 6,362,091, dated 3/26/02, filed 3/14/00) has been maintained for the reasons of record and further includes the newly submitted claims 18-23.

Jang shows the method substantially as claimed and as described in the preceding paragraphs.

Jang lacks anticipation only in not teaching that there are at least 6 alternating silicon dioxide layers.

Andideh teaches multiple layers of this quantity for an improved contact formation with lower dielectric constant and greater etch control.

It would have been obvious to one of ordinary skill in the art to have used the multiple dielectric layers taught in the method of Andideh to form the structure shown in Jang with the motivation that Andideh's structure improves etch control and contact resistance and reliability.

Response to Arguments

e. Applicant's arguments filed 7/9/02 have been fully considered but they are not persuasive. Jang shows multiple dielectric layers as is required by the claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Lynne A. Gurley whose telephone number is 305-3474. The examiner can

normally be reached on Monday-Friday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

John F. Niebling, can be reached on (703) 308-3325. The fax phone number for the organization

where this application or proceeding is assigned is 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 308-0956.

Supervisory Patent Examiner

Technology Center 2800

October 1, 2002